

Fig. 1

0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	40GAHEGPALEPQPQDPASSVCPQPHYLLPDTNVLLDQIDVLEDP-AIRNVIVLQTVLQEVRNRS 40GAHAGPALELQPRDQASSLCPWPHYLLPDTNVLLHQIDVLEHP-AIRNVIVLQTVMQEVRNRS 51DFGTNPLLKIENPVRNAKVGRHALIVDSTSLIRFYDLFDSS-LLRDLIVTQTVWEGVKAKA 55 KLPKDSRGNVLEPILSEKPMFLER-FGHHYLIPDSNIFYHCIDALEHPNNFFDVIILQTVFSEISSKS 57 IVVPDAQNELPKFILSDSPLELSAPIGKHYVVLDTNVVLQAIDLENPNCFFDVIVPQIVLDEVRNKS 60	0
HS-HMC-Dis3 MM-hmc-Dis3 CE-Q17632-Dis3 SP-P37202-Dis3 SC-Q08162-Dis3	MM-LOBO HS-LOBO CE-Q09568-LOBO SP-Z99259 SC-P24276-SSD1 SC-P39112	## HS-HMC-Dis3 ## MM-hmc-Dis3 CE-Q17632-Dis3 SP-P37202-Dis3 SC-Q08162-Dis3 MM-LOBO	HS-LOBO CE-Q09568-LOBO SP-Z99259 SC-P24276-SSD1 SC-P39112

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YKRIRDVINNQEKHFYTFTNELHRETYVEQEQGENANDRND	-HFYTFTHVHHKETYIEQEQGENANDRND	YKKMINSI.CYEDAKDRFHVFWINEFHCETFSESSKFEDLS-RGE	YNRMKRLCQEKTK-RFTPFSNEFFVDTFVERLDDESANDRND	YTRI.RTI.CRDSDDHK-RFIVFHNEFSEHTFVERI.PNETINDRND	AVGASPGDKKSKNKSMRGKKKSIFETYMSKEDVSEGLKRGTLIQ		QNANNLQNNFNPRKIFTEYISKEETDAGIEDGSMFK	VQRPTDTQLKGQDSNHKKASLTETKTEKAKVKPKAKKKNSK	NP¢SNSHRKTSSQSSIYGHSRRHSLGLMEAKKAAAEEQAKRISGGBAGVTVKIDSVQADSGSNSTTEQSD	-KIPLYKLINSDFQLITKLKAPNPMEFQPVQLMESPLNVGDFVL	 201	RRNKEK	RKNKEK	KKRMEN	RENARL	REAATK	RNRALN		RNRAMQ	RNNRDE	PKFPPPPNAHQGHRRATSNISPPSFKFPPNSHGDNDDEFIATSSTHRRSKTRNNEYSPGINSNWRNQSQQ	MCFATK	1	271
YTFTNELHRE	<u> Үтетнинке</u>	HVFWNEFHCE	TPFSNEFFVD	IVPHNEPSEH	KKKSIFETYM	1	NPRKIFTEYI	HKKASLTETK	GEAGVTVKID	LKAPNPMEFQ	 191				,			1			HRRSKTRNNE			. 261
NNOEKHF	NNQEKHF	YEDAKDRF	Qektk-rf	'RDSDDHK-RP	NKKSKNKSMRG		<b>ONANNLONNE</b>	ILKGQDSN	AEEQAKRISG	INSDFOLITK	 181	1									NDDEFIATSS	******		251
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	1							1	SNSHRKTSSQ	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 151	RVAAKWYWEH	RVAAKWYNEH	LSTALYLKTH	RAIRNAASWFASHLASLGIK-	RKTCQWYSEH	RINPKKFHEA		RINPKNYQECI	SKSSK-QDEHI	PPPPNAHQGHI	RPNELAMCVSI		221
2 APV	2 API	1 VPA-	2 IPC	5 YPV	3 GPS	0	6 KP-	3 KDI		4 KP-	 141	•					CALL C	(					1	211
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HS-HMC-Dis3	MM-hmc-Dis3	CE-017632-Dis3	SP-P37202-Dis3	SC-Q08162-Dis3	MM-LOBO	HS-LOBO	CE-009568-LOBO	SP-Z99259	SC-P24276-SSD1	SC-P39112		HS-HMC-Dis3	MM-hmc-Dis3	CE-017632-Dis3	SP-P37202-Dis3	SC-008162-Dis3	MM-LOBO	HS-LOBO	CE-009568-LOBO	SP-Z99259	SC-P24276-SSD1	SC-P39112		
											Fig.	2	b											:

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SC-Q08162-Dis3 264 MGGLKNGVLYQGNIQISEYNPLEGSVSLP---RFSKPVLIVGQKNLNRAFNGDQVIVELLPQS-EWKAPS

	HS-HMC-Disj	183	ALQEGIPAFTCEKYVKTUTANPELIDRIACLSEKGNELESGKLIFSEHDPISKL	
	MM-hmc-Dis3	183	AVQEGIPAFTCEEYVKSLTANPELIDRIAYLSDEMNEIESGKIIFSEHLPLSKL	
	CE-017632-Dis3	191	HYOHVMYLKEYIQNLEDPGKQALLDQMAAYESSGNGNEKQIFDEYLSHDRI	
	SP-P37202-Dis3	199	AAEQGIQVSTIKDYVQYLPDSEILLDMVSAIADAIASKEQVESGTKNVYELHWSMSRL	
	SC-008162-Dis3	207	EVESNIITKSLVQYIELLPNADDIRDSIP-QMDSPDKDLERDTPSDFTFPEYYSTARV	
	MM-LOBO	107	GDLVVVKLLPEDQWKAVKPESNDKETEATYEADIPEEGCGHHPL	
	HS-LOBO	0		
	CE-209568-LOBO	92	GDVVAVKIKPKEDWLVNYVBYVKWWAEH	
_	SP-Z99259	143	NSAKREKNNSHQVEADTNNATEMVSSNAKKSVYPLYYDSATV	
	SC-P24276-SSD1	280	PQQQLSPFRHRGSNSRDYNSFNTLEPPA1FQQGHKHRASNSSVHSFSSQGNNNGGGRKSLFAPYLPQANI	
_	SC-P39112	206	NRVLLRIPHKLPAGIHSLIQPESHHKHLPIGTVKNFSNQTNILPIVARQLITSRY	
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			281 291 301 311 321 331 341	
	HS-HWC-Dis3	237	OOGIKSGTYLOGTPRASRENYLEATVWIHGDNEENKEIILOGLKHLNRAVHEDIVAVELLPKS-OWVAPS	
	MM-hmc-Dis3	237	QQGIKSGSYLQGTFRASRENYLEATVWIHGDKEEEKEILIQGIKHLARAVHEDIVAVELLPRS-QWVAPS	
	CE-017632-Dis3	242	MEGIASCTIKRGNFSVSRENYREATVIIDDQLTSWFITG-NNCNRAVNGDTVAVQLLPED-QWTAPE	
	SP-P37202-Dis3	257	LACIKNGEVHKGLINISTYNYLEGSVVVPGYNKPVLVSGRENLARAVQGDIVCIQILPQD-QWKTEA	
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Fig. 2c

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HS-LOBO CE-Q09568-LOBO SP-Z99259 SC-P24276-SSD1 SC-P39112	HS-HMC-Dis3 MM-hmc-Dis3 CE-Q17632-Dis3 SP-P37202-Dis3 SC-Q08162-Dis3 MM-LOBO HS-LOBO CE-Q09568-LOBO SP-Z99259 SC-P24276-SSD1 SC-P24276-SSD1	

-HMC-Dis3 340	-HMC-Dis3 357 -GMLSKSDIKESRRHLFTPADKRIPRIRIBTRQASKLEGRRIIVAIDGW  7632-Dis3 366 -GMLLDSTVKGARRHLFCPAERLIPRIRIETEQAETLSQ	19 31 55 38
HS-HMC-Dis3  CE-Q17632-Dis3 CE-Q17632-Dis3 SP-P37202-Dis3 SC-Q08162-Dis3 SC-Q08162-Dis3 SC-Q08168-LOBO CE-Q09568-LOBO SP-Z99259 \$C-P24276-SSD1 SC-P39112	HS-H MM-h CE-Q176 SP-P372 SC-Q081	HS-LOBO CE-Q09568-LOBO SP-Z99259 SC-P24276-SSD1 SC-P39112

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HS-HMC-Dis3	522	SARRGTTVYLCEKRIDMVPELLSSNLCSLKCDVDRLAFSCIWEMNHNAEILK
MM-hmc-Dis3	522	SARRGTTVYLCEKRIDMVPBLLSSNLCSLRSNVDRLAFSCIWEMNHNAEILK
CE-017632-Dis3		AALRGTTVYLCDRRIDMLPCLLSSNLCSLRGEERYAFSCIWTWTSSADIQS
SP-P37202-Dis3		AASRGTTVYLVDKRIDMLPMLLGTDLCSLRPYVERFAFSCIWEMDENANIIK
SC-008162-Dis3		GAARGTSVYLVDKRIDMLPMILGTDLCSLKPYVDRFAFSVIWELDDSANIVN
MM-LOBO		AAERATSVYLVQKVVPMLPRLLCEELCSLNPMTDKLTFSVIWKLTPEGKLLE
COCT		aarrayytwokwwpmf.prl.f.crrt.cst.npms.prl.prgy.twrf.mprs.

Fig. 2g

363ASBRGNSTYLSQTVIPMLPRILCEQLCSLNPGVDRLSFSTVFRMSYEAELYD 496AASRATTVYLVQKAIPMLPPLLCERLCSLNPNVERLAFSVFWKLDSNGKEIGK 746ARKRSSAVFMPQKLVNLLPQSFNDELSLAPGKESATLSVVYTLDSSTLRIKS 578 GISTDILANALKRSFTTYLPDTVVPMLPQSICHLSDLGKQGQRTKTISFSVDVKITSKCSGKSIEIMYDS	IL-YAEAQLRIDSANWNDDITTSLRGLNKLAKI LTYEKAQEIIDDPKEQNDITTSLRGLNQLAKI LTYEKAQEIIDDPKEQNDVALGLRGLMKLSKV RSYADAQARIDDQKWQDPLTYGGMRVLLKLSVR LSYDHAQSMIENPTEKIPEEELPPISPEHSVEEVHQAVLNLHSIAKQ LSYEHAQSMIESPTEKIPAKELPPISPEHSSEEVHQAVLNLHGIAKQ LLAYEHAQDPIENPEKDFTCDELPDISDGNTPFEIKEKTLMLHRIAQV LLAYEHAQDPIENPEKDFTCDELPDISDGNTPFEIKEKTLMLHRIAQV LLAYEHAQDPIENPEKDFTCDELPDISDGNTPFEIKEKTLMLHRIAQV LLAYEHQDPIENPEKDFTCDELPDISDGNTPFEIKEKTLMLHRIAQV LLAYEHQDBTICTPNSEASVLSTVQEIARS ATYEDVDRILGTPNSEAS	841 851 861 871 881 891 901
CE-Q09568-LOBO SP-Z99259 SC-P24276-SSD1 SC-P39112	HS-HMC-Dis3 MM-hmc-Dis3 CE-017632-Dis3 SP-P37202-Dis3 SC-008162-Dis3 MM-LOBO HS-LOBO CE-009568-LOBO SP-Z99259 SC-P24276-SSD1 SC-P39112	

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is 3 628 ITLSSPEVRFHWDSETHDPIDLQTKELRETNSWVEEFNLLANISVAKKIHEEFSEHALLRKHPAPPPSNY is 3 628 ITLSSPEIRPHWDSETHDPIDLQTKELRETNSWVEEFNLLANISVAKKIHEEFSEHALLRKHPAPPPSNY is 3 641 LTLASSEVRFDWDWESRTPKKVMEKQHLDTHSWVEEFNLLANISVACKILEEYPDCALLRRHPVPLKESY is 3 658 LNLASPEVRIQTDNETSDPMDVEIKQLLETNSLVEEFMLLANISVACKIYDAFPQTAVLRRHAAPPLTNY is 3 693 LNLASPEVRIQTDNETSDPMDVEIKQLLETNSLVEEFMLLANISVARKIYDAFPQTAVLRRHAAPPLTNY OBO 173 LRLDQLKLAFTLDHETGLPQCCHIYEYRDSNKLVEEFMLLANMAVAHKITRRFFPEQALLRRHPPPQTRML OBO 485 LRIELPRLKFALDEDK-KPQGVSIYETKDSNKLVEEFMLLANMEVAKKITAENFPEQALLRRHPPPQTRML OBS 173 LRLDQLKLAFTLDHETGLPQCCHIYEYRESNKLVEEFMLLANMEVAKKITRRHASPREKKNI OBS 174 VEINSTELKPQLDEKVVDLANILDRTLGFVVINEIKRKVNSTVAEKIYTKLGDLALLRRHASPKEKMI 175 VEINSTELKPQLDEKVKVDLANILDRTLGFVVINEIKRKVNSTVAEKIYTKLGDLALLRRQMQPIATKM 176 AVIFGEGFNKGLVMLA	is3 698 EILVKAARS-RNLEIKTDTAKSLAESLDQAESPTFPYLNTLLRILATRCMMQAVYFCSGMD is3 698 DILVKAARS-KNIQIKTDTAKSLADSLDRAESPDFPYLNTLLRILATRCMMQAVYFCSGMD is3 711 KPLVBAARH-RGFEIIVESGKGLADSLDRACSPPFPYLNTLLRILATRCMTGAVYFCSGMD is3 728 DSLQDILRVCKGMHLKCDTSKSLAKSLDECVDPKEPYFNTLLRILTTRCMLSAEYFCSGTFAP is3 763 EILNEMIANTRKNMSISLESSKALADSLDRCVDPEDPYFNTLVRIMSTRCMMAAQYFYSGAYSY is4 SDLVEFCDQ-MGLPWDFSSAGALNKSLTKTFGDDKYSLARKEVLTNMYSRPMQMALYFCSGLLQD DBO 54 KDVAEQCAR-IGPPLDGRTSGLLSTSLRKYQGKSRLDMCIRQVISSLTIKPMQQAKYPCTFEM S54 KDVAEQCAR-IGPPLDGRTSGLLSTSLRKYQGKSRLDMCIRQVISSLTIKPMQQAKYPCTFEM 125 686 NEFCHFLKS-MNFDFDASSSAAFNASMVRLRSTFNEELVEILLFKTWPRARYFIAGKVD
HS-BMC-Dis3 MM-hmc-Dis3 CE-Q17632-Dis3 SP-P37202-Dis3 SC-Q08162-Dis3 MM-LOBO HS-LOBO CE-Q09568-LOBO SP-Z99259 SC-P24276-SSD1 SC-P39112	HS-HWC-Dis3 MM-hmc-Dis3 CE-Q17632-Dis3 SP-P37202-Dis3 SC-Q08162-Dis3 MM-LOBO HS-LOBO CE-Q09568-LOBO SP-Z99259 SC-P24276-SSD1 SC-P39112
. Fig.	<b>6</b> 1

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EEKKRFVLKTLNLPYRSCLCDDTETSIHLSRGLNDYFLFKKEKLHMSVGVLFKLFDCLGTVPVPQYQHFG -PD	LASPIYTHFTSPIRRYADVIVHRILAVAIGADCTYPELTDFHKLADICKNINFRHKMAQYAQRASVAFHT LASPIYTHFTSPIRRYADVIVHRILAVAIGADCTYPELTDFHKLADICKNINFRHKMAQYAQRASVAFHT LACAIYTHFTSPIRRYADVIVHRILAVAIGADCTYPELTDFHKLADICKNINFRHKMAQYAQRASVAFHT LACAIYTHFTSPIRRYADVIVHRILAAAIGADCTYPELTDFHKLSDICKNINFRHKMAQYAQRASVQINV LASPIYTHFTSPIRRYADVIVHRQLAAAIGYSEQFDSGLINQARCTKICTMINYRHRMAQMAGRASIEYYV LAVDIYTHFTSPIRRYADVIVHRQLAGAIGYSEQFDVBPDTLQKQADHCNDRRWASKRVQELSIGLFF LNVPLYTHFTSPIRRYADVIVHRQLAAAIGYSEQFDVBPDTLQKQADHCNDRRWASKRVQELSIGLFF LNVDHYTHFTSPIRRYPDJIVHRLLAAAIGYNERSERVPEEIQEICTRCNDTKLASKEASDESAMLYF LSFNHYTHFTSPIRRYPDJIVHRLLERSLKNTSPGIDKKN-CSLVAAHCNEKKEKSTTVQEDSQQLFL LINLPIYTHFTAPPMRRYADHVVHRQLKAVIHDTPYTEDMRALKITSEYCNFKKDCAYQAQEQAIHLLLL IGAKQYLTVTSPLRRFPDLINHLQIHRHLQKKPLCFNQTQIDSLIWPIQSRADILKRASRRNSSTYWT 1121 1131 1141 1151
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HLSRGLNDYFLFPD PDPDPDPAQFRPLSFYHPLSFYHPLSFYHPLSFYH	AIGADCTYPEL AIGADCTYPEL AIGADTQSGL AIDYETINPSL AIGYEPLSLTH AIGYSEQPDVE ALGYNERSERV SL-KNTSPGI VIHDTPYT HIQKKPLC
CDDTETES	1071 IVHRILLAV IVHRILLAA LAHROLAA AHROLAG AHROLAG IVHRILLAA
TINIPYRSCL	TSPIRRYADVJ TSPIRRYADVJ TSPIRRYADVJ TSPIRRYADVJ TSPIRRYADVJ TSPIRRYADVJ TSPIRRYPDVJ TSPIRRYPDVJ TSPIRRYPDVJ TSPIRRYPDIJ
EEKKFFVLA	1051 LASPIYTHF LASPIYTHF LASPIYTHF LAVDIYTHF LAVDIYTHF LAVDIYTHF LAVDLYTHF LAVDHYTHF LAVDHYTHF LAVDHYTHF LAVDHYTHF LAVDHYTHF LAVDHYTHF LAVDHYTHF LAVDHYTHF LANCOYLTV 1001
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HS-HWC-Dis3 MM-hmc-Dis3 CB-Q17632-Dis3 SP-P37202-Dis3 SC-Q08162-Dis3 MM-LOBO HS-LOBO CE-Q09568-LOBO SP-Z99259 SC-P24276-SSD1 SC-P24276-SSD1	HS-HWC-Dis3 MM-bmc-Dis3 CE-Q17632-Dis3 SP-P37202-Dis3 SC-Q08162-Dis3 MM-LOBO HS-LOBO CE-Q09568-LOBO SP-Z99259 SC-P24276-SSD1 SC-P24276-SSD1
	Fig. 2j

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O 693 GVFTHOTGPMKCOAVVLGVMDLSFDVLIVEYGVVKRVYVDKMKRDFN	CE-009568-1.080
O 383 AVLVKESGPLESEAMVMGILKQAFDVLVLRYGVQKRIYCNALALRSHHPQ	HS-LOBO
	MM~LOBO
	SC-008162-Dis3
3 868 GQALKGGVAEEDAYVIKVFKNGFVVFIARFGLEGIVYTKSLSSVLEPN	SP-P37202-Dis3
	CE-017632-Dis3
835	MM-hmc-Dis3
835	HS-HMC-Dis3

Fig. 2k

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	823 1052 890	885 885 965 916 950 806 433 740 878 878 878 934	
	SP-Z99259 SC-P24276-SSD1 SC-P39112	HS-HMC-Dis3 MM-hmc-Dis3 MM-hmc-Dis3 SP-P37202-Dis3 SP-P37202-Dis3 MM-LOBO HS-LOBO CE-Q09568-LOBO SP-Z99259 SC-P24276-SSD1 SC-P24276-SSD1	
<b>.</b>		Fig. 21	•••

HS-HMC-Dis3 935 IPTDTSDKALTAPGGKKRKLGK		1				WRALNPFMKRV	1381
HS-HMC-Dis3 935 IPTDTSDKALTAPGGKKRKLGK		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	480 ILKRPGTQGHLGPEKEEEESDGEPEDSSTS		SP-Z99Z59 - 919 RCSLVSLN	RAEVGMALPCLI	331 1341 1351 1361 1371 1381
XKXK	T(		TS	STILQ		ELOKIPILL	1361
NGPKKKKMKLG TAPGGKKRKLE	SSSEGIG	994 KAELLIK	EESDGEPEDSS	KSTLKDMKETG	VSIN	iendnyiqeih	1351
DKAL	DFDL	ELLL	QGHLGPEKEE	LEQRNIL	CSL	EKFISTTETR	1341
IPTDTS- IPPNVA-	VV-	KA-	ILKRPGT	TIVRPS-	R	DNKQNAL	1331
935 935	1016	994	480	788	919	1190	
HS-HMC-Dis3	CE-017632-Dis3 1016 VDPDLSSSEGLGL	SC-008162-Dis3	HS-LOBO	CE-009568-LOBO 788 TIVRPSLEQRNILKSTLKDMKETGSTILQ	SP-Z99259	SC-P24276-SSD1 1190 DNKQNALEKFISTTETRIENDNYIQEIHELQKIPILLRAEVGMALPCLTVRALNPFMKRV	

Fig. 2m

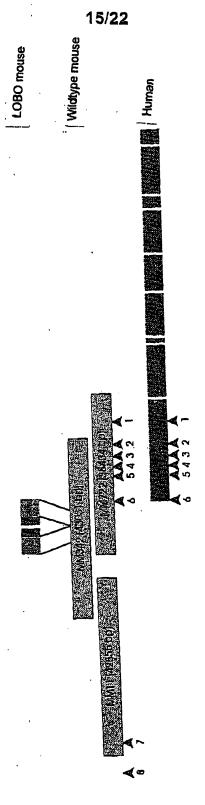
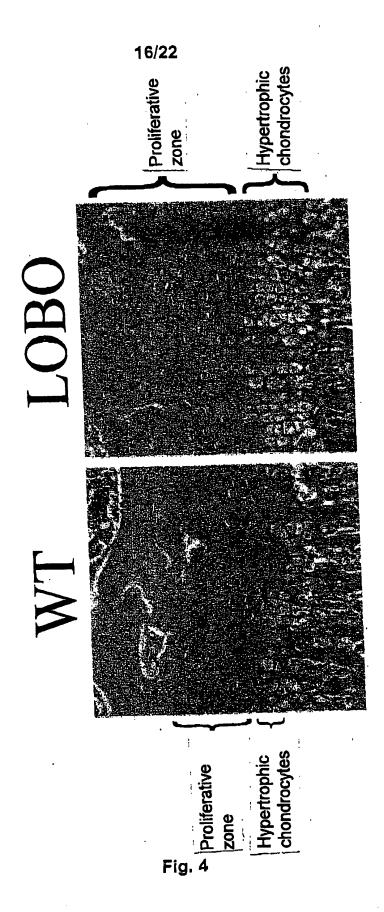


Fig. 3



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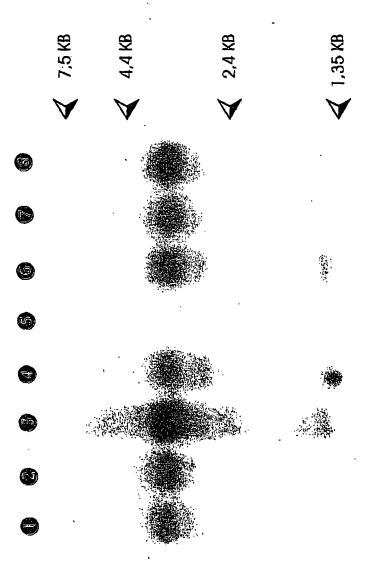


Fig. 5

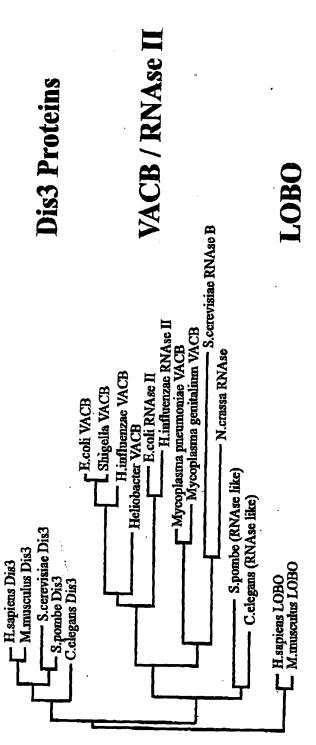
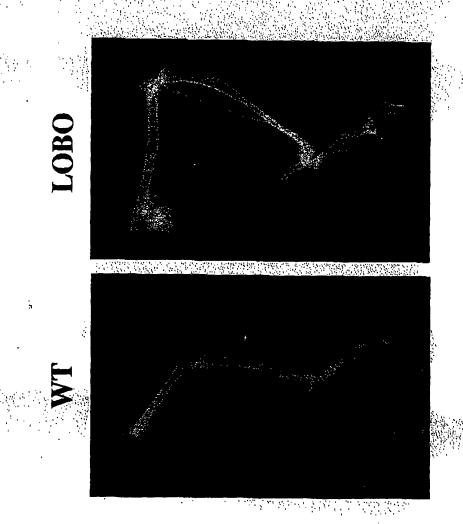


Fig. 6

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Fig. 7

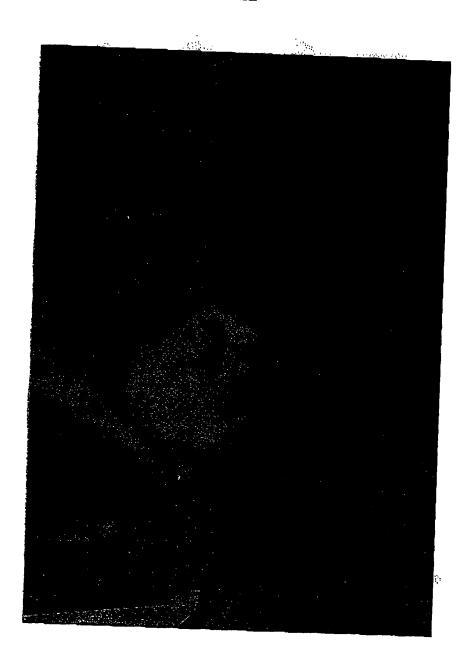


Fig. 8

